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zhang-jie.in.	266

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DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ			
L17	zhang-jie.in.	266	L17
L16	ferguson-stephen-s.in.	9	L16
L15	caron-marc-g.in.	56	L15
L14	barak-lawrence-s.in.	18	L14
DB=USPT; PLUR=YES; OP=ADJ			
L13	L9 and l4	15	L13
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ			
L12	L9 and l4	59	L12
L11	L9 and l3	46	L11
L10	L9 and l2	125	L10
L9	green fluorescent protein	19142	L9
L8	L5 and l4	68	L8
L7	L5 and l3	49	L7

L6	L5 and l2	199	L6
L5	optically detectable or fluorescent or colorimetric or radioactive or electron-dense	455715	L5
L4	(beta-arrestin or beta arrestin) same (conjugate or chimer or chimeric or fusion)	74	L4
L3	(beta-arrestin or beta arrestin) with (conjugate or chimer or chimeric or fusion)	54	L3
L2	(beta-arrestin or beta arrestin) and (conjugate or chimer or chimeric or fusion)	224	L2
L1	beta-arrestin or beta arrestin	266	L1

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Search	Most Recent Queries	Time	Result
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#5	Search **electron dense AND ("ARRB1" [TIAB] OR "ARRB-1" [TIAB] OR "ARRB 1" [TIAB] OR "ARB1" [TIAB] OR "ARB-1" [TIAB] OR "ARB 1" [TIAB] OR "ARR1" [TIAB] OR "ARR-1" [TIAB] OR "ARR 1" [TIAB] OR "Arrestin, beta 1" [TIAB] OR "Beta-arrestin-1" [TIAB])**	09:45:41	0
#4	Search **(radioactive) AND ("ARRB1" [TIAB] OR "ARRB-1" [TIAB] OR "ARRB 1" [TIAB] OR "ARB1" [TIAB] OR "ARB-1" [TIAB] OR "ARB 1" [TIAB] OR "ARR1" [TIAB] OR "ARR-1" [TIAB] OR "ARR 1" [TIAB] OR "Arrestin, beta 1" [TIAB] OR "Beta-arrestin-1" [TIAB])**	09:45:25	0
#3	Search **colorimetric AND ("ARRB1" [TIAB] OR "ARRB-1" [TIAB] OR "ARRB 1" [TIAB] OR "ARB1" [TIAB] OR "ARB-1" [TIAB] OR "ARB 1" [TIAB] OR "ARR1" [TIAB] OR "ARR-1" [TIAB] OR "ARR 1" [TIAB] OR "Arrestin, beta 1" [TIAB] OR "Beta-arrestin-1" [TIAB])**	09:45:07	0
#2	Search **(fluorescent) AND ("ARRB1" [TIAB] OR "ARRB-1" [TIAB] OR "ARRB 1" [TIAB] OR "ARB1" [TIAB] OR "ARB-1" [TIAB] OR "ARB 1" [TIAB] OR "ARR1" [TIAB] OR "ARR-1" [TIAB] OR "ARR 1" [TIAB] OR "Arrestin, beta 1" [TIAB] OR "Beta-arrestin-1" [TIAB])**	09:44:47	26
#1	Search **(green fluorescent protein) AND**	09:44:13	22

("ARRB1" [TIAB] OR "ARRB-1" [TIAB] OR "ARRB 1" [TIAB] OR "ARB1" [TIAB] OR "ARB-1" [TIAB] OR "ARB 1" [TIAB] OR "ARR1" [TIAB] OR "ARR-1" [TIAB] OR "ARR 1" [TIAB] OR "Arrestin, beta 1" [TIAB] OR "Beta-arrestin-1" [TIAB])

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Search	Most Recent Queries	Time	Result
#5	Search **electron dense AND ("ARRB1" [TIAB] OR "ARRB-1" [TIAB] OR "ARRB 1" [TIAB] OR "ARB1" [TIAB] OR "ARB-1" [TIAB] OR "ARB 1" [TIAB] OR "ARR1" [TIAB] OR "ARR-1" [TIAB] OR "ARR 1" [TIAB] OR "Arrestin, beta 1" [TIAB] OR "Beta-arrestin-1" [TIAB])**	09:45:41	0
#4	Search **(radioactive) AND ("ARRB1" [TIAB] OR "ARRB-1" [TIAB] OR "ARRB 1" [TIAB] OR "ARB1" [TIAB] OR "ARB-1" [TIAB] OR "ARB 1" [TIAB] OR "ARR1" [TIAB] OR "ARR-1" [TIAB] OR "ARR 1" [TIAB] OR "Arrestin, beta 1" [TIAB] OR "Beta-arrestin-1" [TIAB])**	09:45:25	0
#3	Search **colorimetric AND ("ARRB1" [TIAB] OR "ARRB-1" [TIAB] OR "ARRB 1" [TIAB] OR "ARB1" [TIAB] OR "ARB-1" [TIAB] OR "ARB 1" [TIAB] OR "ARR1" [TIAB] OR "ARR-1" [TIAB] OR "ARR 1" [TIAB] OR "Arrestin, beta 1" [TIAB] OR "Beta-arrestin-1" [TIAB])**	09:45:07	0
#2	Search **(fluorescent) AND ("ARRB1" [TIAB] OR "ARRB-1" [TIAB] OR "ARRB 1" [TIAB] OR "ARB1" [TIAB] OR "ARB-1" [TIAB] OR "ARB 1" [TIAB] OR "ARR1" [TIAB] OR "ARR-1" [TIAB] OR "ARR 1" [TIAB] OR "Arrestin, beta 1" [TIAB] OR "Beta-arrestin-1" [TIAB])**	09:44:47	26
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Clear History

Symbol	Name	Synonyms	Or
ARRB1	arrestin, beta 1	ARB1, ARR1, Arrestin, beta 1, Beta-arrestin-1	Hc

UniProt	P49407, Q2PP20, O75630
OMIM	107940
NCBI Gene	408
NCBI RefSeq	NP_064647, NP_004032
NCBI RefSeq	NM_004041, NM_020251
NCBI UniGene	408
NCBI Accession	AAA35559, BU594296

Homologues of ARRB1 ...

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These results suggest that **beta-arrestin** recruited in response to receptor **phosphorylation** by different GRKs distinct functional potentials. [2005]

Low surface deposition and **endocytosis** are dependent on constitutive C-terminal **phosphorylation**, suggesting requirement for **beta-arrestin** binding in receptor internalization. [2004]

In contrast, corresponding to its inability to cause mu OR internalization, morphine is unable to either elicit mu OR **phosphorylation** or stimulate **beta-arrestin** **translocation**. [1998]

While both etorphine and morphine effectively activate the delta OR, only etorphine triggers robust delta OR **phosphorylation** followed by **plasma membrane** **translocation** of **beta-arrestin** and receptor internalization.

Heterologous activation of protein kinase C stimulates **phosphorylation** of delta-opioid receptor at **serine** 344, re **beta-arrestin**- and clathrin-mediated receptor internalization. [2001]

Receptor mutants that lack any two **phosphorylation** sites retained their ability to recruit endogenous beta-arrest **cell membrane** and were normally sequestered, whereas **alanine** mutation of any three C-terminal **serine** residu abolished both **beta-arrestin** binding and rapid agonist-induced internalization. [2002]

Determinants in the receptor's core (Asn-289 and Lys-382) appear to regulate internalization of the receptor/**beta arrestin** complex toward early endocytic **endosomes** during the initial step of **endocytosis**. [2002]

After **angiotensin** II stimulation, both wild-type and **beta-arrestin** mutants translocated to the **cell membrane**, recruitment was weaker for mutants of the hydrophobic face of helix I. [2005]

It also blocked **beta arrestin** **translocation** and receptor **downregulation** induced by formyl-Nle-Leu-Phe. [20

These differences in mechanism of action are reflected in the **kinetics** of airway **smooth muscle** relaxation and bronchodilation in patients with asthma. beta-Adrenoceptor desensitization associated with beta2-agonist activati consequence of **phosphorylation** by beta-ARK and uncoupling of the receptor from Gs following **beta-arrestin** of internalization and recycling of the receptor through processes of sequestration and resensitization and **downr** modulated by an effect on receptor **gene expression**. [1998]

To address this question, we investigated the ability of different muscarinic receptor dimers to recruit **beta-arresti** using both **co-immunoprecipitation** and **fluorescence** microscopy in **COS-7 cells**. [2005]

By **confocal microscopy**, we observed **beta-arrestin** 1 and 2, translocated to the **plasma membrane** and col with D2L and D2S receptors upon stimulation with **dopamine**, and this was followed by the **translocation** of rece **endocytic vesicles**. [2004]

Bioluminescence resonance **energy transfer** analysis revealed that both wild-type and **beta-arrestin** mutant a capacity to interact with the AT(1)R, although the interaction with the mutants was less stable. [2005]

For class B receptors (e.g. V2 **vasopressin** receptors), which recycle slowly, **beta-arrestin** internalizes with th

into endosomes. [2003]

Nicotine induces cell proliferation by beta-arrestin-mediated activation of Src and Rb-Raf-1 pathways. [200

Although still capable of activating phospholipase C, this receptor loses almost completely the ability to recruit be arrestin-1 following carbachol stimulation in COS-7 cells. [2005]

Desensitization to low concentrations of isoproterenol (previously shown to be essentially protein kinase A-medi not receptor-specific, i.e. heterologous) was not affected by overexpression of either beta ARK or beta-arrestin

Several GPCRs internalize as a stable complex with beta-arrestin and the stability of this complex appears to at least in part, whether the receptors are dephosphorylated in early endosomes and recycled back to the cell su fully functional receptors, retained in early endosomes or targeted for degradation in lysosomes. [2003]

Role of beta-arrestin 1 in the metastatic progression of colorectal cancer. [2006]

Furthermore, our data implicate a functional role for beta-arrestin 1 as a mediator of cellular migration and metastasis. [2006]

To our knowledge this is the first study demonstrating a defined molecular role of beta-arrestin [?] with direct r to cell growth and cancer. [2005]

Using in vitro binding assays, we have identified two glutamate residues (Glu-849 and Glu-902) in beta(2)-adap important in beta-arrestin binding. [2002]

Using receptor mutagenesis, we demonstrate that the ability of beta-arrestin to remain associated with these is mediated by specific clusters of serine and threonine residues located in the receptor carboxyl-terminal tail. [2

High levels of beta-arrestin-1 mRNA and immunoreactivity were found in peripheral blood leukocytes. [1993]

Using two cell types, human endothelial cells and smooth muscle cells, we found that 6-8-h treatments with the inducing agents cholera toxin, forskolin, iloprost, and isoproterenol raised beta-arrestin-1 mRNA by 2-4-fold.

The mean beta-arrestin 1 expression was unchanged in the cytosol of TTNs, in membranes and cytosol of decreased in the membranes of TTNs compared to their surrounding tissue. [2000]

These data suggest that beta-arrestin binding, which terminates receptor-G protein coupling, also initiates a s wave of signal transduction in which the "desensitized" receptor functions as a critical structural component of a signaling complex. [1999]

Regulation of tyrosine kinase activation and granule release through beta-arrestin by CXCRI. [2000]

ICI118551 and propranolol also promoted beta-arrestin recruitment to the receptor. [2003]

Constitutive protease-activated receptor-2-mediated migration of MDA MB-231 breast cancer cells requires both arrestin-1 and -2. [2004]

In contrast, beta-arrestin mutants displayed enhanced activity at desensitizing the serotonin 5-hydroxytryptar receptor. [2004]

The fusion protein of beta-arrestin 1 with glutathione S-transferase inhibits the beta(1)- and beta(2)AR-stimul adenylyl cyclase activities, although inhibition of the beta(1)AR-stimulated activity requires a higher concentration fusion protein than that of the beta(2)AR-stimulated activity. [2000]

Regulation of muscarinic acetylcholine receptor sequestration and function by beta-arrestin. [1999]

In conclusion, agonist-activated hPTH1-Rc internalization involves beta-arrestin mobilization and targeting to coated vesicles. [1999]

Two alternatively spliced isoforms of human beta-arrestin-1, differing only in the presence or absence of 24 ba pairs/8 amino acids within the sequence, were identified and called beta-arrestin-1A and beta-arrestin-1B, respectively. [1993]

Molecular analysis of human beta-arrestin-1: cloning, tissue distribution, and regulation of expression. Ident two isoforms generated by alternative splicing. [1993]

The reduction in beta-arrestin-1 levels was significantly correlated with the severity of depressive symptoms

The findings in human subjects support the implication of beta-arrestin-1 in the pathophysiology of mood disorders. [2004]

Mononuclear leukocytes of patients with depression showed significantly reduced immunoreactive quantities of arrestin-1. [2004]

RESULTS: Beta-arrestin-1 levels were significantly elevated by all three antidepressants in rat cortex and

hippocampus, while in the striatum no alterations could be detected. [2004]

METHOD: **Beta-arrestin-1** ✩ measurements were carried out in cortical, hippocampal, and striatal brain regions chronically intragastrically treated with either imipramine, desipramine, or fluvoxamine. [2004]

This **beta-arrestin** ✩-mediated regulation of transcription appears to play important roles in cell growth, apopto: modulation of immune functions. [2007]

Among all cell lines, sequestration correlated best with the product of betaARK and **beta-arrestin** ✩ expression.

Both beta ARK and **beta-arrestin** ✩ are members of multigene families. [1994]

The agonist-stimulated differential sorting of the mGlu(1) receptor and beta-arrestin [?] ✩ as well as the activatic kinases by mGlu(1) agonist was confirmed in cultured cerebellar Purkinje cells. [2003]

Utilizing a low stringency hybridization technique to screen a rat brain cDNA library, we have now isolated cDNA representing two distinct beta-arrestin [?] ✩-like genes. [1992]

Addition of recombinant purified **beta-arrestin-1** mimicked human chorionic gonadotrophin to promote desensitiz human chorionic gonadotrophin-stimulated AC activity, in the presence of the ATP phosphorylation antagonist a imidodiphosphate, with an ED50 of approximately 0.1 nM. [1999]

The localization of the alpha(1B)-ARs and AT(1A)Rs with arginine substitutions can be restored to the plasma m by either using selective antagonists or preventing the endocytosis of the beta-arrestin [?]-receptor complexes.

Internalization of the ligand did not occur in beta-arrestin [?]-deficient cells; was blocked or reversed by another ligand, phentolamine, indicating it to reflect binding to the orthosteric recognition site; and was prevented by bloc clathrin-mediated endocytosis. [2005]

Increased levels of an 87-kDa protein reactive with glycoprotein hormone R-reactive antibody, consistent with th R, coimmunoprecipitated with follicular membrane **beta-arrestin-1** in response to LH/CG R activation compared v unactivated R. [1999]

While AT(1A) receptor internalization could be inhibited by a dominant-negative **beta-arrestin 1** mutant (beta arr1 418)), treatment with hyperosmotic sucrose to inhibit internalization did not abrogate the differences in arrestin a observed between the wild-type and mutant receptors, indicating that arrestin binding precedes, and is not depen receptor internalization. [2001]

Of particular note are the recent findings regarding recruitment of cyclic nucleotide phosphodiesterase to **beta-ar** transfected HEK293 cells and in native cardiac myocytes. [2003]

Alteration of sites of acylation reduced internalization and prevented interactions with beta-arrestin [?] 1-GFP. [

In contrast, no change in the subcellular distribution of adenylate cyclase or **beta-arrestin 1** and 2 was observed

The identification of the ubiquitin-proteasome pathway and **beta-arrestin** as molecular targets of neurotoxicity is to provide novel therapeutic strategies both for the treatment of drug addiction and the treatment of neurodeger disorders. [2006]

Our choice of screening platform was the Transfluor **beta-arrestin**-green fluorescent protein translocation assa full-length human orphan GPCRs were stably expressed in a U-2 OS cell background. [2006]

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Role of the G protein-coupled receptor kinase site serine cluster in beta2-adrenergic receptor internalization, desensitization, and beta-arrestin translocation.
J Biol Chem. 2006 Mar 17;281(11):7684-92. Epub 2006 Jan 3.
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Beta-arrestin mediates desensitization and internalization but does not affect dephosphorylation of the thyrotropin-releasing hormone receptor.
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Symbol	Name	Synonyms	Or
ARRB2	arrestin, beta 2	ARB2, ARR2, Arrestin, beta 2, Beta-arrestin-2, DKFZp686L0365	Hc

UniProt	P32121, Q59EM5, Q6ICT3
OMIM	107941
NCBI Gene	409
NCBI RefSeq	NP_945355, NP_004304
NCBI RefSeq	NM_004313, NM_199004
NCBI UniGene	409
NCBI Accession	CR749218, CR591682

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Moreover, stimulation of the angiotensin II type 1A receptor activated JNK3 and **triggered** the colocalization c **arrestin 2** and active JNK3 to intracellular vesicles. [2000]

PTH-related protein analogs **modified** at position 1 **induced** selective stabilization of the active G protein-couple the receptor, resulting in lack of **beta-arrestin-2** recruitment to the cell membrane, sustained cAMP signaling, absence of ligand-receptor complex internalization. [2002]

Angiotensin II type 1 receptors (AT1-Rs) are coupled to the contraction-mediating RhoA/Rho-kinase pathway be desensitized by phosphorylation through G-protein-coupled receptor [?] kinases (GRKs) and **binding** of b arrestin-2 [?]. [2007]

These data suggest that **beta-arrestin 2** can **mediate** chemotaxis through mechanisms which may be G-prot independent (Ang II receptors) or -dependent (LPA receptors). [2005]

Dishevelled 2 [?] **recruits beta-arrestin 2** to **mediate** Wnt5A-**stimulated** endocytosis of Frizzled 4. [2(

Endocytosis of Frizzled 4 (Fz4) in human embryonic kidney 293 cells was dependent on added Wnt5A pro was accomplished by the multifunctional adaptor protein **beta-arrestin 2** (betaarr2), which was recruited to Fz4 **binding** to **phosphorylated** Dvl2 [?]. [2003]

Beta-arrestin 2 mediates endocytosis of type III TGF-beta [?] receptor and down-regulation of its signali

We identified c-Jun amino-terminal kinase 3 (JNK3) as a **binding** partner of **beta-arrestin 2** using a yeast tv screen and by coimmunoprecipitation from mouse brain extracts or cotransfected COS-7 cells. [2000]

The role of beta-arrestin was further confirmed by showing that transfection of **beta-arrestin 2** in these kn cells restored ICI118551 **promoted** ERK1/2 activation. [2003]

Further experiments revealed that overexpression of **beta-arrestin 2 enhanced** the p53 [?]-**mediated** apop while suppression of endogenous **beta-arrestin 2** expression by RNA interference technology considerably a the p53 [?]-mediated **apoptosis**. [2003]

The increased **beta-arrestin 2** expression in TTNs and the desensitization of the TSH receptor by **beta-arrest** vitro suggest that the **beta-arrestin 2** expression is cAMP dependent and that **beta-arrestin 2** very likely de the constitutively **activated** TSH receptor in toxic thyroid nodules. [2000]

Independent **beta-arrestin 2** and G protein-mediated pathways for angiotensin II activation of extracellular si regulated kinases 1 and 2. [2003]

Activation of GPCRs led to formation of a ternary complex of Mdm2 [?], **beta-arrestin 2**, and GPCRs and th recruited Mdm2 [?] to GPCRs at plasma membrane. [2003]

Beta-arrestin 2-dependent angiotensin II type 1A receptor-mediated pathway of chemotaxis. [2005]

In parallel, stimulation of the wild-type angiotensin type 1A receptor with Ang II robustly stimulates ERK1 [?]/; with approximately 60% of the response blocked by the PKC inhibitor (G protein dependent) and the rest of the r blocked by depletion of cellular beta-arrestin 2 by small interfering RNA (beta-arrestin dependent). [2003]

We show in real time and in live human embryonic kidney (HEK-293) cells that a beta-arrestin-2-green fluores protein conjugate internalizes into endocytic vesicles with agonist-activated neurotensin-1 receptor, oxytocin re angiotensin II type 1A receptor, and substance P receptor. [2001]

This desensitization process coincides with a redistribution of GRK2 from the cytosol to the plasma membrar followed by a robust redistribution of beta-arrestin 2 and a profound change in cell morphology that occurs aft SPR stimulation. [1999]

We find that two molecules interact with mammalian Smo in an activation-dependent manner: G protein-couplec kinase 2 (GRK2) leads to phosphorylation of Smo, and beta-arrestin 2 fused to green fluorescent prote interacts with Smo. [2004]

The glucagon-like peptide-2 receptor C terminus modulates beta-arrestin-2 association but is dispensabl ligand-induced desensitization, endocytosis, and G-protein-dependent effector activation. [2005]

This study has focused on enhancing the signal generated from the interaction between a G-protein-coupled re (GPCR [?]) and beta-arrestin 2 (beta-arr2), measured by the bioluminescence resonance energy transfer (I technology. [2004]

MOR363D underwent slower internalization as reflected in the attenuation of membrane translocation of beta-ar when compared with wild type MOR, but the level of receptor being internalized was similar to that of wild type M h of etorphine treatment. [2003]

Regulation of GRK 2 and 6, beta-arrestin-2 and associated proteins in the prefrontal cortex of drug-free ar antidepressant drug-treated subjects with major depression. [2003]

In contrast, expression of beta-arrestin 1 and beta-arrestin 2 by osteoblastic cells varied between cell line

Chromosome mapping of the human arrestin (SAG), beta-arrestin 2 (ARRB2), and beta-adrenergic recep kinase 2 (ADRBK2) genes. [1994]

Conversely, suppression of beta-arrestin 1, but not beta-arrestin 2, expression by using RNA interference fold increase in tumor necrosis factor-stimulated NF-kappaB activity as measured by NF-kappaB mobility-shift analysis. [2004]

Surprisingly, although the truncated mutant receptors failed to interact with beta-arrestin-2, they underwent ho desensitization and subsequent resensitization with kinetics similar to that observed with the wild-type GLP-2R

Co-expression of PAR1 [?] with beta-arrestin 1 (betaarr1) in COS-7 cells resulted in a marked inhibition of [?] signaling, whereas beta-arrestin 2 (betaarr2) was essentially inactive. [2004]

Of all the retinoid receptors, the RAR beta2 subtype showed the strongest sensitivity to beta-arrestin 2 actior

Moreover, an agonist-mediated translocation of wild-type beta2AR and endogenous beta-arrestin 2 to endoc vesicles prepared from CHO fibroblasts was observed. [1997]

In summary, contrary to data obtained for the beta2AR, the constitutive activation of the TSHR does not infl desensitization and time course for internalization of the receptor, and in agreement with findings for the FSH and receptors, these results characterize the TSH receptor as a member of the class A of G protein-coupled recepto have a higher affinity to beta-arrestin 2 than beta-arrestin 1 and do not colocalize with beta-arrestins in endosomes. [2006]

In the present study, we demonstrated that repeated s.c. treatment with etorphine, but not morphine, produced a increase in protein levels of G protein-coupled receptor kinase 2, dynamin [?] II, beta-arrestin 2 and phosphorylated-conventional protein kinase C in membranes of the mouse spinal cord, suggesting that the etor induced mu-opioid receptor desensitization may result from G protein-coupled receptor kinase 2/dynaminII/b arrestin2-dependent phosphorylation of mu-opioid receptors. [2006]

Gene-wide tests, adjusted for the number of SNPs analysed in each gene, identified associations with TPH2, A SYP, DAT1, ADRB2, HES1, MAOA and PNMT. [2006]

Overexpression of either beta-arrestin 1 or beta-arrestin 2 led to marked inhibition of NF-kappaB activity, a measured by reporter gene activity. [2004]

In the present study, we have investigated the expression of the individual isoforms of beta-arrestin and of bet left ventricles from failing and control human hearts. mRNAs for all four proteins, beta-arrestin-1, beta-arrest beta ARK-1, and beta ARK-2, were identified in human heart. [1994]

Our data suggest that in cirrhosis-induced vasodilation, the AT1-R ✩ is desensitized by GRK-2 [?] ✩ and beta-; [?] ✩ and that changed patterns of phosphorylated Ca(2+) sensitizing proteins decrease Ca(2+) sensitivity. [2007

Cell surface distribution and agonist-promoted internalization of receptors and recruitment of **beta-arrestin 2** ✩ w unaffected by the loss of 187 glycosylation. [2004]

However, upon coexpression of arrestin-2 (beta-arrestin-1 ✩) or arrestin-3 (**beta-arrestin-2** ✩), internalization of alpha2b AR was dramatically enhanced and redistribution of receptors to clathrin coated vesicles and endoson observed. [1999]

However, in the same cell lines under the same conditions, overexpression of beta-adrenergic receptor kinase **beta-arrestin 2** ✩ accelerated the rate of DPDPE- but not DAMGO-induced receptor desensitization. [1999]

Here, we report that **beta-arrestin 2** ✩ stimulates the transcriptional activation of the retinoid RAR and RXR receptors. [2006]

Using Xenopus laevis oocytes coexpressing mammalian mu-opioid receptors (MORs), beta-adrenergic recept 2 ✩ (beta-ARK2) [also called G protein-coupled receptor kinase ✩ (GRK3 ✩)], and **beta-arrestin 2** ✩ (beta-ar compared the rates of beta-ARK2 (GRK3 ✩)- and beta-arr 2-mediated homologous receptor desensitization prod treatment with opioid agonists of different efficacies. [1998]

In the presence of C2 [?] alone, CRIT associates with the adapter protein, **beta-arrestin-2** ✩, and whether in ass with C2 [?] or not, then appears in the perinuclear region, but does not appear to be translocated into the nucleus

Characterization of isoprenaline- and salmeterol-stimulated interactions between beta2-adrenoceptors and **beta 2** ✩ using beta-galactosidase complementation in C2C12 cells. [2005]

Isoprenaline, noradrenaline, and adrenaline (-log EC(50) = 5.9, 5.5, and 5.7, respectively) stimulated an associ between the beta(2)-adrenoceptor and **beta-arrestin 2** ✩ at much higher concentrations than required for activati cAMP accumulation (-log EC(50) = 7.6, 6.3, and 7.7, respectively). [2005]

The results indicate that opiate addiction in humans (tolerant state) is associated with down-regulation of brain opioid receptors and regulatory GRK 2 ✩/6 and **beta-arrestin-2** ✩ proteins. [2004]

G protein-coupled receptor kinases, **beta-arrestin-2** ✩ and associated regulatory proteins in the human brain: postmortem changes, effect of age and subcellular distribution. [2002]

Although beta-arrestin 1 ✩ and **beta-arrestin 2** ✩ are important for these effects induced by opioids with high in efficacy such as etorphine and fentanyl, morphine tolerance may be mediated mainly via **beta-arrestin 2** ✩. [20(

4. The results suggest that VOL induces an increase in the expression of lymphocyte beta2-adrenoceptor ✩-sp GRK and **beta-arrestin 2** ✩ in association with an attenuation in beta2-adrenoceptor ✩ levels. [2002]

Studies in mice have shown that beta-arrestin-2 [?] ✩ plays an important role in the development of morphine-i tolerance, constipation, and respiratory depression. [2007]

Periaqueductal gray (PAG) is a potential structure where morphine produces its antinociception, but it is unclear **beta-arrestin 2** plays its regulatory effect on morphine at PAG. [2006]

The genes for phosphatidylinositol transfer protein (PITPN), retinal guanylate cyclase (GUC2D), **beta-arrestin 2** (ARRB2 ✩), pigment epithelium-derived factor (PEDF) and recoverin (RCV1 ✩) map to this region and are cand genes for retinal disease. [1996]

In contrast, B1Rs, which are inducible and constitutively active, constitutively internalize without agonist via a clatl dependent pathway, do not recruit **beta-arrestin 2**, bind G protein-coupled receptor sorting protein, and target lysosomes for degradation. [2007]

Cotransfection of M3 cells with the c-Myc-tagged hMC2R ✩ and **beta-arrestin-2**-green fluorescence protein alo sucrose treatment revealed that **beta-arrestin-2**-green fluorescence protein and c-Myc-hMC2R ✩ were redistri similar intracellular vesicles through a clathrin-dependent, but caveolae-independent, process. [2006]

Possible association of **beta-arrestin 2** gene with methamphetamine use disorder, but not schizophrenia. [2007

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